TABLE OF CONTENTS

Volume 59

ARTICLES

AUBLE, DAVID L. and TILDEN P. MEYERS / An Open Path, Fast Response Infrared Absorption Gas Analyzer for H_2O and CO_2 243

CRAWFORD, TIMOTHY L. and RONALD J. DOBOSY / A Sensitive Fast-Response Probe to Measure Turbulence and Heat Flux from Any Airplane 257

GALLÉE, HUBERT and GUY SCHAYES / Dynamical Aspects of Katabatic Wind Evolution in the Antarctic Coastal Zone 141

GAO, W., R. H. SHAW, and K. T. PAW U / Conditional Analysis of Temperature and Humidity Microfronts and Ejection/Sweep Motions within and above a Deciduous Forest 35

GLENDENING, JOHN W. and STEPHEN D. BURK / Turbulent Transport from an Arctic Lead: A Large-Eddy Simulation 315

HORST, T. W. and J. C. WEIL / Footprint Estimation for Scalar Flux Measurements in the Atmospheric Surface Layer 279

KOSUGI, KENJI, KOUICHI NISHIMURA, and NORIKAZU MAENO / Snow Ripples and their Contribution to the Mass Transport in Drifting Snow 59

LAGOUARDE, J.-P. and K. J. McANENEY / Daily Sensible Heat Flux Estimation from a Single Measurement of Surface Temperature and Maximum Air Temperature 341

LEUNING, R. and K. M. KING / Comparison of Eddy-Covariance Measurements of CO_2 Fluxes by Open- and Closed-Path CO_2 Analysers 297

ŁOBOCKI, LECH / Mellor–Yamada Simplified Second-Order Closure Models: Analysis and Application of the Generalized von Karman Local Similarity Hypothesis 83

NOVITSKY, MIKHAIL, DANNY D. REIBLE, and BERNARDO M. CORRIPIO / Modeling the Dynamics of the Land-Sea Breeze Circulation for Air Quality Modeling 163

PRAKASH, J. WINSTON JEEVA, RADHIKA RAMACHANDRAN, K. NARAYANAN NAIR, K. SEN GUPTA, and P. K. KUNHIKRISHNAN / On the Structure of Sea-Breeze Fronts Observed near the Coastline of Thumba, India 111

SHAO, YAPING / Turbulent Dispersion in Coastal Atmospheric Boundary Layers: An Application of a Lagrangian Model 363

SIEBERT, J., U. SIEVERS, and W. ZDUNKOWSKI / A One-Dimensional Simulation of the Interaction between Land Surface Processes and the Atmosphere 1

TAKAMURA, TAMIO / Spectral Reflectance in an Urban Area – A Case Study for Tokyo 67

THOMSON, DAVID J. / An Analytical Solution of Tennekes' Equations for the Growth of Boundary-Layer Depth 227
TROMBETTI, F. and F. TAMPIERI / Analysis of Wind Tunnel Dispersion Data over Two-Dimensional Obstacles 209
WANG, Y. S., D. R. MILLER, D. E. ANDERSON, R. M. CIONCO, and J. D. LIN / A Spatial Length Scale Analysis of Turbulent Temperature and Velocity Fluctuations within and above an Orchard Canopy 125
XU, DAPENG and PETER A. TAYLOR / A Non-Linear Extension of the Mixed Spectral Finite Difference Model for Neutrally Stratified Turbulent Flow over Topography 177
YOUNG, G. S. and L. KRISTENSEN / Surface-Layer Gusts for Aircraft Operation 231
ZILITINKEVICH, S. S., E. E. FEDOROVICH, and M. V. SHABALOVA / Numerical Model of a Non-Steady Atmospheric Planetary Boundary Layer, Based on Similarity Theory 387

RESEARCH NOTES

MALEK, ESMAIEL, GAIL E. BINGHAM, and GREG D. McCURDY / Continuous Measurement of Aerodynamic and Alfalfa Canopy Resistances Using the Bowen Ratio-Energy Balance and Penman–Monteith Methods 187
PATTEY, E., R. L. DESJARDINS, F. BOUDREAU, and P. ROCHETTE / Impact of Density Fluctuations on Flux Measurements of Trace Gases: Implications for the Relaxed Eddy Accumulation Technique 195
WANG, JIEMING and YASUSHI MITSUTA / Evaporation from the Desert: Some Preliminary Results of Heife 413

BOOK REVIEWS

Andreas, Edgar L. (ed.), *Turbulence in a Refractive Medium* (RICHARD J. LATAITIS) 205

Announcements 207, 313, 314

Volume Contents 419

Author Index 421

Subject Index 423